DT03 Rec'd PCT/PT0 0 7 JAN 2005

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES			ATTORNEY'S DOCKET NUMBER 2002-29-US
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371			U.S. APPI CATION NO. (It known, see 37 CFR 1.5)
	ATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
PCT	/US2003/022579	18 July 2003	19 July 2002
TITLE OF INVENTION LIQUID FLOW CONTROLLER AND PRECISION DISPENSE APPARATUS AND SYSTEM			
APPLICANT(S) FOR DO/EO/US  Marc Laverdiere, Robert F. McLoughlin, George Gonnella, Iraj Gashgaee and Jennifer Marys			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
1. X	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.		
2.	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.		
3.	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.		
4. X	The US has been elected (Article 31).		
5. X	A copy of the International Application as filed (35 U.S.C. 371(c)(2))		
	a. is attached hereto (required only if not communicated by the International Bureau).		
	b. has been communicated by the International Bureau.		
	c. X is not required, as the application was filed in the United States Receiving Office (RO/US).		
6.	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).		
	a. is attached hereto.		
רצו	b. has been previously submit	tted under 35 U.S.C. 154(d)(4).	•
7. X.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))		
•	a. are attached hereto (required only if not communicated by the International Bureau).		
	b. have been communicated by the International Bureau.		
	c. have not been made; however, the time limit for making such amendments has NOT expired.		
	d. 💢 have not been made and will not be made.		
8.	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).		
9.	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).		
10.	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
item	Items 11 to 20 below concern document(s) or information included:		
11.	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.	
12.	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.		
13.	A preliminary amendment.		
14. 📙	An Application Data Sheet under 37 CFR 1.76.		
15.	A substitute specification.		
16.	A power of attorney and/or change of address letter.		
17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.		
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(4).		
19.	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).  1. Copy of the International Search Report. 3. Form PCT/IB/304.		
20. X	Other items or information: 2. Cop	of the International Search R v of the Notification of a cha	ange. 4. Form PCT/IB/308.

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

## JT12 Rec'd PCT/PTO 0 7 JAN 2005

PTO-1390 (Rev. 12-2004) Approved for use through 3/31/2007, OMB 0651-0021

Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER 2002-29US PCT/US2003/022579 The following fees are submitted: Applicant use Office use only X a) Basic national fee......\$300.00 X b) Examination fee.....\$200.00 \$ TOTAL OF ABOVE CALCULATIONS = 1,000.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number) - 100 = /50 = x \$250.00 0 Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). 130.00 NUMBER FILED **NUMBER EXTRA** RATE \$ Total claims 1,600.00 52 - 20 = 32 x \$50.00 Independent claims 1,400.00 10 - 3 = × \$200.00 MULTIPLE DEPENDENT CLAIM(S) (if applicable) \$360.00 \$ **TOTAL OF ABOVE CALCULATIONS =** 4,130.00 Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced 4,130.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). TOTAL NATIONAL FEE = 4.130.00 Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property TOTAL FEES ENCLOSED = 4,130.00 Amount to be refunded: Amount to be charged a. X 4,130.00 A check in the amount of \$ to cover the above fees is enclosed. Please charge my Deposit Account No. \_\_\_ to cover the above fees. in the amount of \$ \_\_\_ A duplicate copy of this sheet is enclosed. c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0930. A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: CUSTOMER NO: 42754 Nields & Lemack 176 E. Main Street - Suite 7 Kevin S. Lemack Westboro, MA 01581 NAME 32,579 REGISTRATION NUMBER

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Applicants** 

Marc Laverdiere et al.

Serial No.

Not yet assigned (PCT/US2003/022579)

Filed

Herewith By Express Mail (18 July 2003)

For

LIQUID FLOW CONTROLLER AND PRECISION DISPENSE

APPARATUS AND SYSTEM

Examiner

Not yet assigned

Art Unit

Not yet assigned

Attorney

Docket No.

2002-29PCT-US

Type of paper

Copy of the Notification Concerning A Change

"EXPRESS MAIL" MAILING LABEL NO ER 908004691 US

DATE OF DEPOSIT: January 7, 2005

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Mail Stop: PCT, Alexandria, VA 22313-1450.

Ann Marie Mahan

Name of person mailing parer or fee

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Art Unit

Not yet assigned

Attorney

Docket No.

2002-29PCT-US

Type of paper

Copy of the Notice Informing The Applicant of the

Communication of the International Application to the Designated

Offices (Form PCT/IB/308)

# "EXPRESS MAIL" MAILING LABEL NO ER 908004691 US DATE OF DEPOSIT: January 7, 2005

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Ann Marie Mahan

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11

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(DO/EO/US) Concerning A Submission Under 35 U.S.C. 371

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Ann Marie Mahan

Name of person maiting paper or fee

Attorney Docket No. 2002-29-US

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Marc Laverdiere, Robert F. McLoughlin, George Gonnella,

Iraj Gashgaee and Jennifer Marrs

For:

LIQUID FLOW CONTROLLER AND PRECISION DISPENSE APPARATUS AND

**SYSTEM** 

Commissioner for Patents

P.O. Box: 1450

Alexandria, VA 22313-1450

Sir:

LETTER

The above-identified applicants enclose for filing the national phase of a PCT patent application (PCT/US2003/022579) entitled "LIQUID FLOW CONTROLLER AND PRECISION DISPENSE APPARATUS AND SYSTEM". Said attached PCT patent application includes (1) Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 (2-Pages); (2) Check in the amount of \$4,130.00 in payment of the Filing Fee; (3) Copy of the International Search Report (3-Pages); (4) Copy of the Notification of the Recording of a Change (1-Page); (5) Copy of the Notice Informing the Applicant of the Communication of the International Application to the Designated Offices (Form PCT/IB/308)(1-Page) and (6) Copy of the Notification Concerning Submission of Priority Documents (Form PCT/IB/304)(1-Page).

The executed Declaration will be submitted in due course.

All correspondence concerning this application should be mailed to: CUSTOMER NO: 42754

Kevin S. Lemack
Nields & Lemack
176 E. Main Street - Suite 7
Westboro, Massachusetts 01581

Respectfully submitted,

Kevin S. Lemack
Attorney for Applicant

Registration No. 32,579

EXPRESS MAIL NO: ER 908004691 US

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE.

**Applicants** 

: Marc Laverdiere et al.

Serial No.

Not yet assigned (PCT/US2003/022579)

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LIQUID FLOW CONTROLLER AND PRECISION DISPENSE

APPARATUS AND SYSTEM

Examiner

Not yet assigned

Art Unit

Not yet assigned

Attorney

Docket No.

2002-29PCT-US

Type of paper

Copy of the International Search Report

"EXPRESS MAIL" MAILING LABEL NO ER 908004691 US DATE OF DEPOSIT: January 7, 2005

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\_\_\_\_Ann Marie Mahan

Name of person papiling paper or